Site: 1/1	teat to Calle
ID#	540113
Break:	
Other:	
\overline{G}	22 7000



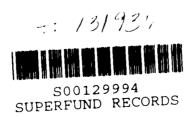
ENVIRONMENTAL PROTECTION AGENCY 901 N. 5th St. KANSAS CITY, KS 66101

TO: Pat Cossins	FROM: Don Hamilia
COMPANY: Tetra Tech	Superfund Division
DEPT.	PHONE # 551 - 7818
FAX# 913 874 - 6275	FAX # (913) 551-7948

COMMENTS:

Pat FyI

of pages Cover + 16



TO: DON HAMERA 913-551-7948

From NICK PAPPES

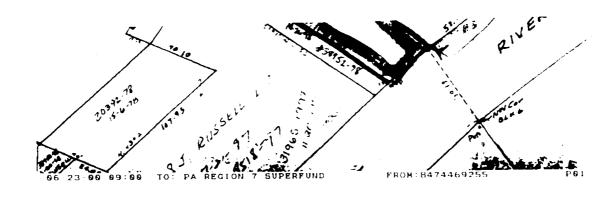
RE: OLD DS FLANCAR PROPLAT 725 Foderal St. DAVENAGAT LA

I was ABLE TO Get the enclosed report had some issues over payment for it.

PIS

It appears from the plat that the part part to the north is not part of the property.

Please coall with any greens. 1319) 285 6516 647)452-6372







April 24, 2000

Mr. Ron Schiltz Schiltz Properties, Inc. 736 Federal Street Davenport, Iowa 52803

RE: Limited Phase II Environmental Assessment Former Franche Paint Company Property 735 Federal Street Davenport, Iowa

Blackhawk Consulting Services, Inc. is pleased to present this report for environmental/geological work. Services included drilling, installation of temporary monitoring wells with locking caps, well development, groundwater elevation measurements, soil sampling and groundwater sampling.

The rationale used for boring placement was dependent primarily on review of historical aerial photographs and an exploratory tour of the property. The target assessment areas were:

- 1. The above ground tank impoundment;
- 2. Heating oil boiler and possible underground tank area;
- 3. Area assumed to be downgradient in regards to groundwater flow from the building (paint mixing areas);
- 4. Downgradient property periphery.

Reference the attached Site Map.

A total of 7 borings were performed. Some borings were outfitted as temporary monitoring wells. Soil boring observations indicated that contaminants in the subsurface originated on-site. Strong petrochemical odors and staining were observed in 6 borings. Strong petrochemical odors and discolorations were also observed in groundwater which was encountered in 5 borings. Bedrock consisting of fractured Ilmestone was encountered in 5 of the borings. Reference the attached Assessment Methods for procedures used.



Rick Island, IL 61201

FROM: 8474469255

3700 Blackhawk Road

(309) 786 6009

Phase II Environmental Assessment Former Franche Paint Property April 24, 2000 Page 2

ANALYTICAL TESTING

A soil sample from below a former above ground tank was laboratory tested using EPA Method 8260 for volatile hydrocarbon compounds and EPA Method 6010 for total lead. This sample was selected due to the presence of obvious hydrocarbon odors.

Selected groundwater samples were laboratory tested using EPA Method 8270 for acid extractable and base neutral compounds, EPA Method 8260 for volatile hydrocarbon compounds and EPA Method 8310 for polynuclear aromatic hydrocarbons. Analytical testing was not comprehensive, but selective based on chemicals typically associated with target area processes and soil observations during drilling.

SOIL SAMPLE RESULTS

The following table presents a comparison of compounds in a soil sample obtained on March 20, 2000 to Iowa Underground Tank regulations. The values are presented in micrograms-per-liter (µg/L), or parts-per-billion (ppb):

PETROLEUM IN SOIL

Petroleum Compound	Franche Semple	Iowa Ter 1 Default Values
Toluene	588,000	42,000
Xylenes	56,500	Not listed

GROUNDWATER SAMPLE RESULTS

The following table presents a comparison of compounds in a groundwater sample obtained on March 21, 2000 to USEPA Drinking Water "Maximum Contaminant Levels" and Iowa Underground Tank regulations. The values are presented in micrograms-per-liter (µg/L), or parts-per-billion (ppb):

PETROLEUM IN GROUNDWATER

Petroleum Compound	Franche Serepie B/4	Franche Semple MW-2	Groundwater MCL
Benz (a) anthracene	1.81	0.753	0.13
Benzo (a) pyrene	0.886	0.137	0.2
Benzo (b) fluoranthene	2.82	0.682	0.18
Chrysene	5.20	1.21	1.5
Dibenz(a,h) anthracene	0.392	< 0.02	0.3

Reference the attached laboratory reports and sampling documentation.



3700 Blackhawk Road

Rock Island, IL 61201 (309) 786-6009

FROM:8474469255

Phase II Environmental Assessment Former Franche Paint Property April 24, 2000 Page 3

GROUNDWATER FLOW

Based on Blackhawk Consulting Services' experience in the area and on groundwater depths, general shallow groundwater flow was to the south and southwest. Seasonal changes in the Mississippi River level affect the area and groundwater flow directions may fluctuate.

CONCLUSION

Multiple petrochemical compounds were detected in shallow groundwater at the site. Several compound were above Federal or Iowa standards. Based on the risk of human exposure to the chemicals during site renovation or utility work in the area, the property should be remediated. A recommended remedial alternative is presented in the next section.

SITE RESTORATION AND EXPENSE ESTIMATES

The contaminants present in soil and shallow groundwater have specific gravities less than water, or are typically "lighter than water". Denser aqueous or non-aqueous compounds such as chlorinated hydrocarbons (cleaners, degreasers...) were not present in soil or groundwater samples. Therefore, petrochemicals in the subsurface likely did not migrate deep into the bedrock unit below. This makes the site a good candidate for a cleanup method Blackhawk Consulting Services has termed Bio-injection, in-which contaminants are treated in place. Reference Attachment 1 for an explanation of the cleanup method.

Bio-injection applications over a period of 2 years are estimated at \$85,000. Reporting the site status to regulatory agencies would add an estimated \$25,000. Periodic groundwater monitoring (sampling) would total approximately \$20,000.

Other issues which were not investigated but which may incur additional cleanup expenses are as follows. The costs presented are generalized estimates:

1.	Removal and reporting associated with a heating oil tank, if present:	\$15,000
2.	Asbestos tile removal and disposal:	\$10,000
3.	Lead Paint removal and disposal:	\$20,000
4.	Basement vat cleaning and sludge disposal:	\$12,000

Upon notification from Schiltz Properties, Inc., borings will be back-filled with an expanding clay (bentonite) and drill cuttings.



FROM:8474469255

P04

Phase II Environmental Assessment Former Franche Paint Property April 24, 2000 Page 4

Blackhawk Consulting Services does not recommend acquisition of the property without full indemnification from regulatory agencies such as the USFPA. If you have questions or require further assistance, please contact us.

Blackhawk Consulting Services, Inc.

Zachary D. Miller Consulting Geologist

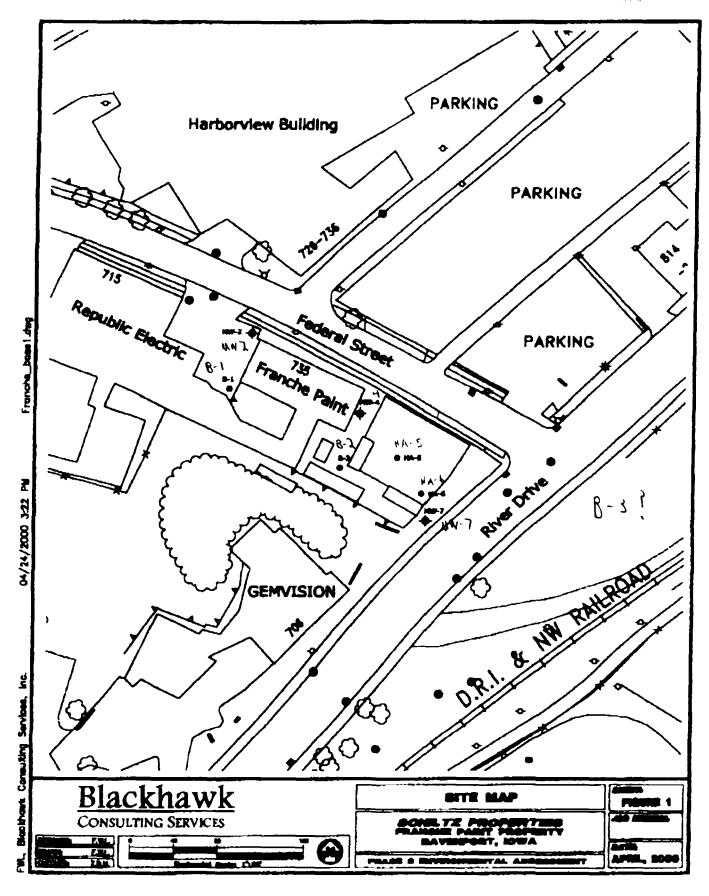
ATTACHMENTS: SITE MAP

ASSESSMENT METHODS

Analytical Laboratory Reports BIO-INJECTION EXPLANATION

hawk Road

Rock Island, IL 61201





Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Blackhawk Consulting Services 3700 Blackbawk Rd. #10 Rock Island, IL 61201

Project: Franche Paint

Sampled: 3/20/00 to 3/21/00

Project Number: N/A Project Manager: Pred Lawrence

Received: 3/22/00 Reported.

4/7/00 14.56

Total Metals by EPA 6800/7000 Series Methods Great Lakes Analytical

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
HA-6			B0934	(2- 01			Seil	
Lead	0030818	3/30/00	3/31/00	EPA 6010B	1.00	ND	mg/kg	G2

Great Lakes Analytical

*Refer to end of report for text of notes and definitions

Satal Patel, Project Manager

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USACE, Winconsin DNR 9899 3160

Page 2 of 10



 MI^{*}

Email info@glalabs.com (847) 808-7756 FAX (847) 808-7772

Blackhawk Consulting Services Project: Franche Paint Sampled 3/20/00 to 3/21/00
3700 Blackhawk Rd. #10 Project Number N/A Received. 3/22/00
Rock Island, IL 61201 Project Manager. Fred Lawrence Reported: 4/7/00 14.56

Volatile Organic Compounds by EPA Method 8260B Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>MOW-7</u>			B0034	6 9_04			Water	
Acetone	0030725	4/27/00	3/27/00		10.0	14.8	u g/ l	A
Benzene	-	•			2.00	ND	-	
Bromodichloromethane	•				2.00	ND	•	
Bromoform	-	r	н		2 00	ND	~	
Bromomethene	**	-	Ħ		2 00	ND	4	
2-Butanone	-	~	•		100	ND	-	
Carbon disulfide	n	-	-		2.00	ND	-	
Carbon tetrachloride		•	•		2.00	ND	-	
Chlorobenzene	•		-		2.00	ND	**	
Chlorodibromomethane	76		• •		2.00	ND	•	
Chloroethane	n	•	#		2.00	ND	*	
Chloroform	•	*	*		2 00	ND		
Chloromethane	•	н	,4		2.00	ND	-	
1,1-Dichloroethane	u	*			2.00	ND	•	
1,2-Dichloroethane	•	-	•		2.00	ND	-	
1,1-Dichloroethene	•	*	•		2.00	ND	-	
cis-1.2-Dichloroethone		•1	•		2.00	ND	19	
trans-1,2-Dichlaroethene	-	*4			2.00	ND	•	
1,2-Dichioropropane		-	*		2 0 0	ND		
cis-1,3-Dichloropropene		w	•		2 00	ND	•	
trans-1,3 Dichloropropene	•	•	•		2 00	ND	-	
Ethylbenzene	^		-		2.00	ND	•	
2-Hexanone	•	•	•		10.0	ND	•	
Methylene chloride			•		2.00	ND	**	
4-Mathyl-2-pentanone	•	u	•		10.0	ND	•	
Styrene	•		м		2 00	ND	•	
1,1,2,2-Tetrachioroethane	•	*			2 00	ND	•	
Tetrachtoroethene		-	M .		2.00	ND	•	
Toluene	•	•			2 00	ND	n	
1,1,1-Trichloroethane	•	•			2 00	ND	•	
1,1,2-Trichloroethane	14		•		2 00	ND		
Trichloroethene	,,	n	•		2 00	ND	-	
Vinyl chloride		D	•		2 00	ND		
Total Xylenes	•	*			2.00	ND	-	
Surrogate Dibromofluoromethane	-· - 	•		86.0-118		105	%	
Surrogate 1,2-Dichloroethane-d4	•	*		80.0-720		103	*	
Surrogate: Toluene-d8	~	•		88 0-110		100	~	
Surrogate 4-Bromofluorobenzene	-	~	-	86 0-115		96.8	~	

Great Lakes Analytical

*Refer to end of report for text of notes and definitions.

Setal Patel, Project Manager

Accreditations/Cartifications Hillinois EPA 100261 New Jersey DEP 54001;

USACE, Wisconsin DNR-999317160

Page 3 of 10



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Blackhawk Consulting Services Project: Pranche Paint Sampled: 3/20/00 to 3/21/00
3700 Blackhawk Rd. #10 Project Number: N/A Received: 3/22/00
Rock Island, IL 61201 Project Manager: Fred Lawrence Reported: 4/7/00 14:56

Semivolatile Organic Compounds by EPA Method 8270C Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-7			R0034	2-04			Water	
Acenaphthene	0030577	3/23/00	3/28/00		2 00	NĎ	பத∕ி	
Acenaphthylene	•	•			2.00	ND	•	
Aniline	•	•			2.00	ND		
Anthracene	-	n			2.00	ND	••	
Benzoic acid	•	*	•		1 0 .0	ND	•	
Benz (a) anthracene	•	•	•		2.00	ND	•	
Benzo (a) pyrene	•	•	•		2.00	ND	•	
Benzo (b) fluoranthene	•	•	•		2 00	ND	•	
Benzo (ghi) perylene	•		•		2.00	ND	•	
Benzo (k) fluoranthene	•	•	•	•	2.00	ND	•	
Benzyl alcohol	•	-	•		2.00	ND	*	
Bis(2-chloroethoxy)methane	H		-		2.00	ND	•	
Bis(2 chloroethyl)ether	4		•		2.00	ND	•	
Bis(2-chloroisopropyl)ether	•	•	•		2 00	ND	•	
Bis(2-ethylbexyl)phthalate	•	•	•		10.0	ND	•	
4-Bromophenyi phenyi ether	•		•		2.00	ND	*	
Butyl benzyl phthalate	•	•	•		2 00	ND	-	
4-Chloroaniline	4	•	•		2.00	ND	•	
4-Chloro-3-methylphenol	•	4	•		2.00	ND	•	
2-Chloronaphthalenc	•	•	•		2.00	ND	•	
2-Chlorophenal	•	*	-		2,00	ND	•	
4-Chlorophenyl phenyl ether	•	•	•		2 00	ND	-	
Chrysene		~	•		2.00	ND	•	
Dibenz (a,h) anthracene			•		2.00	ND	•	
Dibenzofuran	•	*	•		2.00	ND	•	
1,2-Dichlorobenzene	**	•	•		2.00	ND	-	
1,3-Dichlorobenzene	•	٩	•		2 00	ND	-	
1,4-Dichlorobenzene	4	h	•		2.00	ND	*	
3,3'-Dichlorobenzidine	*	•	•		1 0 .0	ND	4	
2,4-Dichlorophenol	•	•	•		2.00	ND	-	
Dechyl phthalate	н	•	•		2.00	ND	•	
2,4-Directhylphenol	•	•	•		2.00	ND	i.	
Dimethyl plithalate	•	•	•		2.00	ND	•	
Dr-n-butyl phthalate	•	•	•		10.0	ND	•	
1,6-Dinstro-2-methylpheno		•	-		10.0	ND	-	
2,4-Dinitrophenol	•	•	•		1 0 0	ND	••	
2.4-Dinitrotoluene	•	•	•		2.00	ND	-	
2,6-Dinitrotoluene	•	-	•		2.00	ND	-	

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*Refer to and of report for text of notes and definitions

Satai Patel, Project Manager

Accreditationa/Cartifications Illinois EPA 100261, New Jersey DEP 54001,

JSACE: Wisconsin DNR-999917160

Page 4 of 10



Email: info@glaisbs.com (847) 808-7766 FAX (847) 808 7772

Blackhawk Consulting Services 3700 Blackhawk Rd. #10 Rock Island, IL 61201 Project: Franche Paint

Sampled: 3/20/00 to 3/21/00

Project Number: N/A
Project Manager: Fred Lawrence

Received: 3/22/00 Reported: 4/7/00 14:56

Semivolatile Organic Compounds by EPA Method 8270C Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-7 (continued)			B0034	(2.04			Water	
Di-n-octyl phthalase	0030577	3/23/00	3/28/00		2.00	ND	ug/l	
Fluoranthene	•	•	•		2.00	ND	- ~	
Fluorene	•	-	•		2 00	ND	•	
Hexachlorobenzene	•	-	•		2.00	ND		
Hexachlorobutadiene		•	•		2.00	ND	w	
Hexachlorocyclopentadiene	•	••	•		2.00	ND	•	
Hexachloroethane	•	•	•		2.00	ND	-	
Indeno (1,2,3-od) pyrene	-	•	•		2.00	ND		
Isophoroac	•	*	•		2.00	ND		
2-Mathylnaphthalone	•	•	•		2.00	2216	•	
o-Creso)	н		•		2.00	ND		
m,p-Crcsols	•	-	•		2.00	ND	•	
Naphthalene	•	н	•		2.00	ND	•	
2-Nitroanilme	•	•	#		1 0 O	ND	-	
3-Nitroaniline	•	•	•		10.0	ND	•	
4-Nitrosnitine		**	•		100	ND	**	
Nitrobenzene	•	н	•		2.00	ND	•	
2-Nitrophenol	•	•	••		2 00	ND	-	
4-Nitrophenol	•	-	•		10.0	ND	•	
N-Nitrosodi-n-propylamine	•		•		2.00	ND	•	
N-Nitrosodiphenylamine	•		•		2.00	ND	-	
Pentachiorophenol	-	-	-		0.01	ND	•	
Phononthrene	-	-	•		2.00	3.67	•	
Phenol	•	•	•		2.00	ND	•	
Pyrene	4	-	•		2.00	ND	-	
1,2,4-Trichlorobenzene			•		2.00	ND	•	
L4,5-Trichlorophenol	•	•	•		100	ND		
2,4,6-Trichlorophenol	**		4		2 00	ND	•	
surrogate 2 Fluorophenol			•	10.0-124		24 9	*	-
iurogan: Phenol-do		-	•	102830		155	-	
urrogata Nitrobenzene-d5	•	~	•	29 0-89 0		555	~	
urrogane: 2-Fluorobiphenyl	•	*	•	31 0-86 0		36 1	*	
urrogate 2,4,6-Tribromophenol	•	•	-	10 0-159		35 8	•	
Surrogate: p-Terphonyl-d14	•	•	~	23 2-98 0		50 1	₩	

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Refer to end of report for text of notes and definitions

Saral Palet, Project Manager

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USACE Wacoisin DNR-989917160

Page 5 of 10



Email: info@glalabs.com (847) 808-7768 FAX (847) 808-7772

Blackhawk Consulting Services Project: Pranche Paint Sampled: 3/20/00 to 3/21/00 3700 Blackhawk Rd. #10 Project Number: N/A Received: 3/22/00

Rock Island, IL 61201 Project Manager: Fred Lawrence Reported 4/7/00 14:56

Polynuclear Aromatic Compounds by EPA Method 8310 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
MW-2			B0034	(0- 02			Water	
Acenaphthene	0030562	3/23/00	3/27/00		5.00	ND	ug/1	
Aconspithylone	•	••	i a		4.00	7.28		
Anthracene	•	•	-		0.200	2.44	-	
Benz (a) authracone	•	•	-		0.0100	0.753	••	
Benzo (a) pyrene	•	.•	-		0.0500	0.137	•	
Bonzo (b) fluoranthene	•	**	•		0 0200	0.682	•	
Benzo (ghi) perylene	-	•	•		0.0600	ND	•	
Benzo (k) fluoranthene	•	-	•		0.0500	ND	•	
Chrymne	w	4	•		0.0500	1.21	••	
Dibenz (a,h) anthracene	"	~	•		0 0200	ND	-	
Fluoranthene	н				1.00	14.8	•	
Fluorenc	•	•			1.00	2.77	•	
Indone (1,2,3-cd) pyrene	•	•	•		0.200	0.697	•	
Naphthalene	•	*	•		3.00	ND	•	
Phonenthrone	•	•	н		0.300	4.05	•	
Pyrene	4	-			1.00	ND	•	
Surrogate. Carbazole	10			70 0 130		101	*	
M¥ -4			B08346	9. <u>4.</u> 3			Water	
Acenaphthene	0030562	3/23/00	3/27/00		5 00	ND	ug/)	
Acceaphthylene	*		•		4 00	ND	*	
Anthracene	••	-	•		0.200	ND	•	
Benz (a) anthracene	H		н		0.0100	9.0362	•	
Bonzo (a) pyrege					0.0500	ND	,	
Benze (b) fluoras those	4	•			0.0200	0.0471	7	
Benzo (ghi) perylene	•	•	•		0.0600	ND	*	
Benzo (k) fluoranthene	ri				0.0500	ND	•	
Thrysons					0.0500	0.0621	-	
Dibenz (s.h) anthracené	•		•		0.0200	ND		
Juoranthene	-	•	•		1.00	ND		
luorene	o o		•		1.00	ND	1.	
ndeno (1,2,3-cd) pyrene	•	•			0.200	0.492	•	
laphthalene	4	•	•		3.00	ND	•	
honanthrene	9	•	•		0 300	ND ND		
yrene	•	"			1.00	ND		
urrogate Carbazole		-,-		70 0-130	1.00	99 2	%	

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*Refer to end of report for text of notes and definitions

Satal Patel, Project Manager

Accreditationa/Cartifications illinois EPA-100261 New Jersey DEP 54001

Page 6 of 10



Email: info@glalabs.com (847) 808 7768 FAX (847) 808-7772

Blackhawk Consulting Services 3700 Blackhawk Rd. #10 Rock Island, IL 61201

Project: Franche Paint Project Number: N/A

Project Manager: Fred Lawrence

Received: 3/22/00

Sampled: 3/20/00 to 3/21/00

Reported: 4/7/00 14:56

Polynuclear Aromatic Compounds by EPA Method 8310 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
B-1			B0034	5 9-8 5			Water	
Acenaphthene	0030562	3/23/00	3/28/00		10.0	ND	ug/l	G12
Aconaphthylene	*	4	•		8.00	48.7	"	G12
Anthrocene	•	•	-		0 400	11.7	•	G12
Bonz (a) authracene	•	•			0.0200	1.81	**	G12
Benzo (a) pyrese	•	-	-		0.100	0.886	-	G12
Benzo (b) Ruoranthese	•	•	н		0.0400	2.82	•	G12
Benzo (ghi) perylene	•	•	-		0.120	0.414	•	G12
Benzo (k) fluoranthene	•	-	•		0.100	0.191	•	G12
Chrysene	•	•	•		0.100	5.20	-	G12
Dibenz (a,h) anthracese	• •	•			0.0400	0,392	•	G12
Finoranthene	•	•	•		2.00	54.8	•	G12
Plyorese	н		•		2.00	29.9	-	G12
Indeno (1,2,3-cd) pyrene	n	*	•		0.400	ND	•	G12
Naphthalene	•	•	-		6.00	ND	•	G12
Phenanthrone	••	•	•		0.600	109	•	G12
- Гутеле	•	-	•		2.00	5.11	-	G12
Surrogate Carbazole		• • • • • • • • • • • • • • • • • • • •		70 0-130		740	%	GÏ2
L. 3			50 0346	9-06			Water	
Aconaphthene	0030562	3/23/00	3/27/00		5.00	ND	ug/l	
Accoaphthylone	•		-		4,00	16.6	. "	
Anthracene	•	•	•		0.200	ND	•	
Benz (a) anthracese	•	-	•		0.0100	0.0537	•	
Senzo (a) pyrose	н	•	•		0.0500	0.0575		
Bonzo (b) Muoranthene	•	•	•		0.0200	0.0410		
Benzo (ghi) perylene	•	•	H		0.0600	ND	•	
Benzo (k) fluoranthene	•		a		0.0500	ND	•	
hrysene	•		•		0 0500	0.0719	•	
Dibenz (a,h) anthracene	•	•	•		0.0200	ND	-	
Tworsathene	•	•	•		1.00	2.13		
Tuorene	•	•	•		1 00	ND	*	
ndeno (1,2,3-ed) pyrene	•	•	n		0.200	ND	-	
aphthalene			4		3.00	ND	•	
hensuthrene	a	•			0.300	1.13	•	
утепс	11	*	•		1.00	ND	4	
urrogate Carbazole		-		70 0-130		95 8	<u>* </u>	

Great Lakes Applytical

*Refer to end of report for text of notes and definitions.

Accreditations/Certifications Illinois EPA 100261 New Jersey DEP 54001, USACE, Wisconsin DNR-399817160

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Emeil: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Blackhawk Consulting Services Project: Franche Paint Sampled: 3/20/00 to 3/21/00
3700 Blackhawk Rd. #10 Project Number: N/A Recaived: 3/22/00
Rock Island, IL 61201 Project Manager: Fred Lawrence Reported. 4/7/00 14:56

Volatile Organic Compounds by EPA Method 5035/8260B Great Lakes Analytical

	Batch	Date	Dute	Surrogate	Reporting			
Analyte	Number	Propared	Analyzed	Limits	Limit	Result	Units	Notes*
HA-6			R0834	64_ 01			Soil	G12
Acetone	0030772	3/28/00	4/6/00	2 - 1 1	125000	ND	ugvkg	<u> </u>
Benzene	*	,	•		25000	ND		
Bromodichloromethane	•	•			25000	ND	••	
Bromoform		•			25000	ND	•	
Bromomethane	•				25000	ND	•	
2-Butanone	*		•		50000	ND	-	
Carbon disulfide	*	•	•		25000	ND		
Carbon tetrachloride	•	-	•		25000	ND	••	
Chlorobenzene		-	•		25000	ND		
Chlorodibromomethane	it	•			25000	ND		
Chloroethanc	**		•		25000	ND	۳	
Chloroform	н		•		25000	ND	•	
Chioromethane	•	•1	•		25000	ND ND	•	
1,1-Dichloroethane	•	••	•		25000	ND ND		
1.2-Dichloroethane	-				25000	ND ND		
1.1-Dichloroethene			•		25000	ND		
cis-1,2-Dichloroethene		-	•		25000	ND	-	
trans-1,2-Dichloroethene	•		•		25000	ND		
1,2-Dichloropropune	n				25000	ND	•	
cis-1,3-Dichloropropene	н		h		25000	ND	-	
trans-1,3-Dichloropropene	•	•	•		25000	ND		
Ethy (benzenc		•	•		25000	ND		
2-Hexanone	n				50000	ND		
Methylene chloride	**	•			25000	ND	10	
f-Methyl-2-pentanone	и	-	14		50000	ND	-	
Styrenc	w	-			25000	ND		
1,1,2,2-Tetrachloroethane	4	•			25000	ND		
Tetrachioroethene					25000	ND		
l'eluepe			•		25000	588000	•	
1.1.1-Trichloroethanc	•	-			25000	ND	•	
1,1,2-Trichloroethane	••				25000	ND	-	
Frichloroethene	и	-				_		
/my) chloride	m	н	W		25000 25000	ND ND	**	
Total Xylenes	•	4	•		25000	56500		
urragate. Dibromofluoromethane			·- , ·	86 0-1!8	23000	87.2	%	-
Surrogate 1.2 Dichloroethane-d4	~	-		80 0-120		89.2	70 •	
Surrogate Toluene-d8	•	•		88 0-110		102	•	
urrogate: 4-Bromofluorobenzene	•			86 0 115		97.4	•	

Great Lakes Assignation

Refer to end of report for text of notes and definitions

Setal Parel, Project Manager

Accreditations/Certifications Illinois EPA 100261 New Jersey DEP 54001,

USACE, Wisconsin DNR-999311160



Email: info@glalebs.com (847) 808-7766 FAX (847) 808-7772

Blackhawk Consulting Services Project: Franche Paint Sampled: 3/20/00 to 3/21/00

 3700 Blackhawk Rd #10
 Project Number: N/A
 Received. 3/22/00

 Rock Island, IL 61201
 Project Manager: Fred Lawrence
 Reported. 4/7/00 14:56

BTEX by EPA Method \$260B Great Lakes Analytical

	Betch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
M(W-2			B0034	69-02			Water	
Benzenc	0030725	4/27/00	3/27/00		2.00	ND	ug/i	
Ethylbenzene	•	•	•		2.00	ND	ug/	
Toluene	•	•	•		2.00	ND	•	
Total Xylenes	,,	•	•		2.00	ND	•	
Surrogase Dibromofluoromethane				86.0-118	 	105	%	
Surrogate: 1,2-Dichloroethane-d4	~	-		80.0 120		101	-	
Surrogate Toluene-d8	•	-	•	88 0-110		101	-	
Surrogaie: 4-Bromoftworobenzene		•	•	86 0-115		97.4	•	
MY.4			B00346	i9-03		•	Water	
Benzene	0030725	4/27/00	3/27/00		2 00	ND	ug/i	
Ethylbenzene			H		2 00	ND	2	
Toluenc	•		•		2 00	ND	•	
Total Xylenes	•		*		2.00	ND	•	
Surrogate. Dibromoftworomethane	•••••	÷ · · · ·	-	86.0-118		106	% ~	
Surrogate !.2-Dichloroethane-d4	•	•		80.9-120		100	~ *	
Surrogase: Toluene d8	•	-		88.0-110		101	~	
Surrogate 4-Bromostuorobensene	**	-	•	860115		96 2	~	
L l			B08346	9-05			Water	
Benzene	0030725	4/27/00	3/28/00		2 00	63.0	ug/l	
Ethylbenzene	M	,,	•		2.00	ND		
[elvene		e	-		2.00	4.91	-	
Total Xylenes	н		-		2.00	5.84	-	
urragate Dibromastuoromethane				86 0-118		103	~ %	
iurrogate. 1,2-Dichlorouthane-d4	*	-		80 0 120		102	~	
urrogate Toluene-d8		•	-	88.0 117		100		
urrogate. 4-Bromostuorobanzene	•	•	•	86 0-115		100	~	
님			B003469	P-06			Water	
carre	0030725	4/27/00	3/28/00		2.00	25.4	ug/l	
thylbenzene	••	*			2.00	ND	*	
pluene	-	n	•		2.00	ND	••	
otal Xylenes	•	v	n		2.00	ND	•	
urrogate Dibromofluoromethane			····	86.0 118		103	₩	
urrogate. 1,2-Dichlorouthans-d4	•	•	*	80 0-120		107	*	
urrogate Totuene-d8	•	~	•	88 0-110		101		
urrogate 4-Bromofluorobenzene			•	86.0 115		100	**	

Great Lakes-Analytical

*Refer to end of report for text of notes and definitions

Satal Patei, Project Manager

Recreditations/Certifications - Illinois EPA 100261 - New Jersey DEP 54001;

USACE, Wisconsin DNR 99891 1160

Page 9 of 10



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Blackhawk Consulting Services Project: Franche Paint Sampled: 3/20/00 to 3/21/00
3700 Blackhawk Rd. #10 Project Number: N/A Received: 3/22/00
Rock Island, IL 61201 Project Manager: Fred Lawrence Reported: 4/7/00 14:56

Notes and Definitions

		Note
	A	The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
	G12	The reporting limit for this analyte has been elevated due to sample matrix and/or other effects
	G2	The matrix QC recoveries associated with this sample were below the laboratory's established acceptance criteria.
	DET	Analyte DETECTED
	ND	Analyte NOT DETECTED at or above the reporting limit
ŀ	NR	Not Reported
	dry	Sample results reported on a dry weight basis
	Recov.	Recovery
	RP D	Relative Percent Difference

Great Lakes Analytical

Sarai Patel, Project Manager

Accreditations Certifications, klinois EPA-100261, New Jersey DEP 54001, USACE, Wisconsin DNR 999917160

Page 10 of 10

*** CONFIRMATION REPORT ***

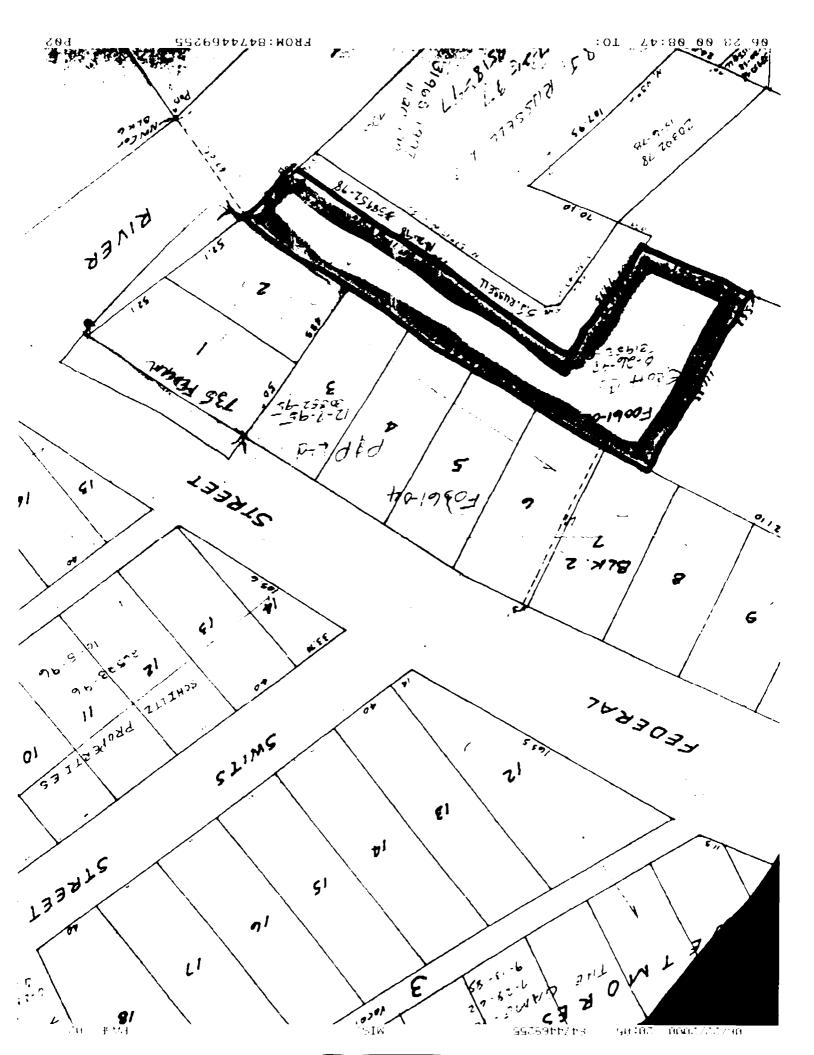
SUCCESSFUL TX

06-23-00 09:40

ID:9135517063
PA REGION 7 SUPERFUND

419 JOB NUM. 09:36 START TIME ______ 98946295 ID NUM. STANDARD RESOLUTION 16 TOTAL PAGES 04'18 MACHINE ENGAGED ______ ______ OK INFORMATION

ENVIRO	ENVIRONMENTAL PROTECTION AGENCY 901 N. 5th St. KANSAS CITY, KS 66101						
TO: Pat Cossins	FROM: DON HOMING						
COMPANY: Texton Text	Superfund Division						
DEPT.	PHONE# 551 - 1818						
FAX# 913 894 - 6295	FAX# (913) 551-7948						
COMMENTS:	stigetion Court						



SUPERFUND

CHAIN OF CUSTODY REPORT

Buffaio Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 Brookfield W1 53501 (414) 798-1030 FAX (414) 798-1066

CHAM Blackhawk Consul	ting	Bill To:	541	ME_			·		TAT. 5 04	1 DAY	3 DAY 2 D	AY 1 DAY < 24 HPS	
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Project: Franche Paint				/40/	*	8 104 P	Sal Ja	07 4 KB		TF /	SAMPLE		
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COMMENTS WARNING 8	ALL samples appear to be highly contaminated.												
	PAGE OF												



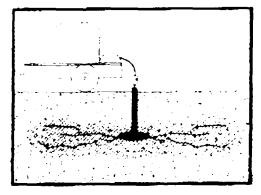
ATTACHMENT 1



Bioiniection

Insitu bioremediation is a proven technology for soil remediation. The technique works well if optimal oxygen and nutrient requirements for bacterial activity are maintained. The Bioinjection system provides conditions favorable for bacterial degradation of petroleum contaminants. The technique is often used at sites where contaminated soils cannot be removed by excavation without damage to structures on-site.

In-situ remediation of contaminated soll groundwater is particularly difficult to achieve in overconsolidated materials such as glacial tills and clay rich soils with low permeability. The Bioinjection process, as described here, provides a technique to cost-effectively accomplish that goal. The process involves hydraulically fracturing the soil in the contaminated area in order to more effectively distribute the enhanced bioremediation fluids. The bioremediation fluids include a superoxygenated mix of nutrients selected specifically for the site and, if needed, specialized bacteria. The relatively low cost per application allows frequent



applications of the fluid mix on a close spacing to more effectively treat the contamination. Whenever possible the water used for the remedial fluids is groundwater from beneath the site. This technique avoids the problems inherent in other in-situ methods involving the direct injection of chlorinated water and harsh chemicals such as hydrogen peroxide which are toxic to the beneficial bacteria and can cause unwanted reactions.

Bloinjection points are typically installed on a grid. The grid spacing is determined based on site conditions. "Permanent" bioinjection points are constructed of steel tubing driven or jetted to the desired depth. If necessary, the annulus outside of the steel tubing is cemented in order to seal the annulus to the surface. High pressure water is first injected into the bottom of a borehole to cut a disk shaped notch that serves as the starting point for the fracture. The superoxygenated mix of nutrients are introduced into the contaminated soil by direct injection under pressure sufficient to hydraulically fracture the soil. The remedial fluids are forced into the contaminant migration pathways. The remedial fluids can also be applied directly at locations between the "permanent" bioinjection points by quickly jetting a boring to the desired depth and injecting the remedial fluids under pressure. "Permanent" bioinjection points are typically installed at sites or locations where the disturbance caused by repeated jetting applications may not be acceptable.

Oxygen is added to the makeup water using an oxygen exchange membrane in a storage tank. The dissolved oxygen concentration of the makeup water is greater than 20 parts per million. The maximum dissolved oxygen concentration achieved by air sparging is 8 parts per million. The nutrient and surfactant solutions are not mixed with the makeup water until just prior to injection. The remedial fluids are applied under pressure at rate of 1 to 4 gallons per minute. The volume of fluid applied is sufficient to treat the soil within the site specific radius of influence of the injection point. The treatment is typically repeated monthly to bimonthly until the cleanup objectives are achieved. Biodegradation of the soil contaminants to levels below the cleanup objectives is typically accomplished within 6 months to two years.

Blackhawk Consulting Services, Inc. • 3700 Blackhawk Road, Suite 10 • Rock Island, IL 61201 • (309) 786-6009